Test Report
Aggregate Particle Shape

Project Name: 1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division
2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division
3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division
4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division
5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division
6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division

Client: Executive Engineer Project Division Yelahanka Zone
Job No: MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/1
Mix Type: Wet Mix Macadam
Contractor: Sri A Chennareddy
Test Method: IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location: At site
Material: Coarse Aggregates
Sample No: 5
Date: 15-Apr-2018

I.S. Sieves Size		Weight of Retained Sample on Each Sieve	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on	Length Gauge	Weight of Aggregates in Fraction
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	25	19.5	0	58.5	0
31.5	25	35	16.95	0	-	0
25	20	1565	13.5	245	40.5	263
20	16	1430	10.8	109	32.4	136
16	12.5	925	8.55	120	25.6	127
12.5	10	435	6.75	37	20.2	43
10	6.3	255	4.89	77	14.7	84
	SW	4670	SWf	588	SWe	653

Flakiness Index 12.59 %
Elongation Index 13.98 %
Combined Flakiness and Elongation Indices : 26.57 %

Comments: Maximum allowable Combined Flakiness and Elongation Indices for WMM is 35%

Note:
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iv. Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Aggregate Particle Shape

Project Name

1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division
2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division
3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division
4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division
5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division
6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division

Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/1
Mix Type	Wet Mix Macadam
Contractor	Sri A Chennareddy
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	6
Date	15-Apr-2018

I.S. Sieves Size		Weight of Retained Sample on Each Sieve (minimum	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	27	19.5	0	58.5	0
31.5	25	37	16.95	0	-	0
25	20	1575	13.5	255	40.5	273
20	16	1425	10.8	104	32.4	131
16	12.5	935	8.55	130	25.6	137
12.5	10	460	6.75	62	20.2	68
10	6.3	235	4.89	57	14.7	64
	SW	4694	SWf	608	SWe	673

Flakiness Index 12.95 %

Elongation Index 14.34 %

Combined Flakiness and Elongation Indices : 27.29 %

Comments: Maximum allowable Combined Flakiness and Elongation Indices for WMM is 35%

Note:

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For Mecadez Core Technologies Private Limited

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Aggregate Particle Shape

Project Name

1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division
2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division
3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division
4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division
5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division
6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division

Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/1
Mix Type	Wet Mix Macadam
Contractor	Sri A Chennareddy
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	7
Date	15-Apr-2018

I.S. Sieves Size		Weight of Retained Sample on Each Sieve	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	22	19.5	0	58.5	0
31.5	25	32	16.95	0	-	0
25	20	1555	13.5	235	40.5	253
20	16	1447	10.8	126	32.4	153
16	12.5	952	8.55	147	25.6	154
12.5	10	467	6.75	69	20.2	75
10	6.3	232	4.89	54	14.7	61
	SW	4707	SWf	631	SWe	696

Flakiness Index 13.41 %
Elongation Index 14.79 %
Combined Flakiness and Elongation Indices : 28.19 %
Comments: Maximum allowable Combined Flakiness and Elongation Indices for WMM is 35%

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Aggregate Gradation

Project Name: 1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division
2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division
3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division
4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division
5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division
6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division

Client: Executive Engineer Project Division Yelahanka Zone
Job No: MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/1
Mix Type: Wet Mix Macadam
Contractor: Sri A Chennareddy
Test Method: IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.

Location: Wet Mix Plant
Material: Coarse Aggregates
Sample No: 1
Date: 14-Apr-2018

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing: Test Result	Cumulative % of Passing: Gradation Limits as per MORT&H	Remarks
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	102	2.55	2.55	97.45	95-100	
3	22.4	1106	27.65	30.2	69.8	60-80	
4	11.2	804	20.1	50.3	49.7	40-60	
5	4.75	712	17.8	68.1	31.9	25-40	
6	2.36	406	10.15	78.25	21.75	15-30	
7	0.06	303	7.58	85.83	14.17	(8-22)	
8	0.075	445	11.13	96.96	3.04	0-5	

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Aggregate Gradation

Project Name: 1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division
2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division
3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division
4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division
5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division
6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division

Client: Executive Engineer Project Division Yelahanka Zone
Job No: MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/1
Mix Type: Wet Mix Macadam
Contractor: Sri A Chennareddy
Test Method: IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.

Location: Wet Mix Plant
Material: Coarse Aggregates
Sample No: 2
Date: 14-Apr-2018

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing: Test Result	Cumulative % of Passing: Gradation Limits as per MORT&H	Remarks
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	102.5	2.56	2.56	97.44	95-100	
3	22.4	1106.5	27.66	30.22	69.78	60-80	
4	11.2	804.5	20.11	50.33	49.67	40-60	
5	4.75	712.5	17.81	68.14	31.86	25-40	
6	2.36	406.5	10.16	78.3	21.7	15-30	
7	0.06	303.5	7.59	85.89	14.11	(8-22)	
8	0.075	445.5	11.14	97.03	2.97	0-5	

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Aggregate Gradation

Project Name: 1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division
2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division
3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division
4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division
5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division
6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division

Client: Executive Engineer Project Division Yelahanka Zone
Job No: MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/1
Mix Type: Wet Mix Macadam
Contractor: Sri A Chennareddy
Test Method: IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.

Location: Wet Mix Plant
Material: Coarse Aggregates
Sample No: 3
Date: 14-Apr-2018

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing: Test Result	Gradation Limits as per MORT&H	Remarks
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	104	2.6	2.6	97.4	95-100	
3	22.4	1108	27.7	30.3	69.7	60-80	
4	11.2	806	20.15	50.45	49.55	40-60	
5	4.75	714	17.85	68.3	31.7	25-40	
6	2.36	408	10.2	78.5	21.5	15-30	
7	0.06	305	7.63	86.13	13.87	(8-22)	
8	0.075	447	11.18	97.31	2.69	0-5	

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Aggregate Gradation

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/1
Mix Type	Wet Mix Macadam
Contractor	Sri A Chennareddy
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	4
Date	14-Apr-2018

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing: Test Result	Cumulative % of Passing: Gradation Limits as per MORT&H	Remarks
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	105.5	2.64	2.64	97.36	95-100	
3	22.4	1109.5	27.74	30.38	69.62	60-80	
4	11.2	807.5	20.19	50.57	49.43	40-60	
5	4.75	715.5	17.89	68.46	31.54	25-40	
6	2.36	409.5	10.24	78.7	21.3	15-30	
7	0.06	306.5	7.66	86.36	13.64	(8-22)	
8	0.075	448.5	11.21	97.57	2.43	0-5	

Note:

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For Mecadez Core Technologies Private Limited

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Aggregate Gradation

Project Name

1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division
2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division
3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division
4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division
5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division
6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division

Client Executive Engineer Project Division Yelahanka Zone
Job No MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/1
Mix Type Wet Mix Macadam
Contractor Sri A Chennareddy
Test Method IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location Wet Mix Plant
Material Coarse Aggregates
Sample No 5
Date 14-Apr-2018
Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing: Test Result	Gradation Limits as per MORT&H	Remarks
1	53	0	0	0	100	100	#VALUE!
2	45	107	2.68	2.68	97.32	95-100	
3	22.4	1111	27.78	30.46	69.54	60-80	
4	11.2	809	20.23	50.69	49.31	40-60	
5	4.75	717	17.93	68.62	31.38	25-40	
6	2.36	411	10.28	78.9	21.1	15-30	
7	0.06	308	7.7	86.6	13.4	(8-22)	
8	0.075	400	10	96.6	3.4	0-5	

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Aggregate Gradation

Project Name

1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division
2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division
3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division
4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division
5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division
6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division

Client Executive Engineer Project Division Yelahanka Zone
Job No MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/1
Mix Type Wet Mix Macadam
Contractor Sri A Chennareddy
Test Method IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location Wet Mix Plant
Material Coarse Aggregates
Sample No 6
Date 14-Apr-2018

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing: Test Result	Gradation Limits as per MORT&H	Remarks
1	53	0	0	0	100	100	0
2	45	108.5	2.71	2.71	97.29	95-100	
3	22.4	1112.5	27.81	30.52	69.48	60-80	
4	11.2	810.5	20.26	50.78	49.22	40-60	
5	4.75	718.5	17.96	68.74	31.26	25-40	
6	2.36	412.5	10.31	79.05	20.95	15-30	
7	0.06	309.5	7.74	86.79	13.21	(8-22)	
8	0.075	401.5	10.04	96.83	3.17	0-5	

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Aggregate Gradation

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division 2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division 3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division 4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division 5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division 6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/1
Mix Type	Wet Mix Macadam
Contractor	Sri A Chennareddy
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	7
Date	14-Apr-2018

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing: Test Result	Cumulative % of Passing: Gradation Limits as per MORT&H	Remarks
1	53	0	0	0	100	100	0
2	45	106.5	2.66	2.66	97.34	95-100	
3	22.4	1110.5	27.76	30.42	69.58	60-80	
4	11.2	808.5	20.21	50.63	49.37	40-60	
5	4.75	716.5	17.91	68.54	31.46	25-40	
6	2.36	410.5	10.26	78.8	21.2	15-30	
7	0.06	307.5	7.69	86.49	13.51	(8-22)	
8	0.075	399.5	9.99	96.48	3.52	0-5	

Note:

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ii. The results relate only to the items tested.

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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Insight Makes It Happen
MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCYSERVICES

Test Report
Aggregate Gradation

Project Name

1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division
2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division
3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division
4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division
5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division
6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division

Client Executive Engineer Project Division Yelahanka Zone
Job No MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-8/1
Mix Type Wet Mix Macadam
Contractor Sri A Chennareddy
Test Method IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.

Location Wet Mix Plant
Material Coarse Aggregates
Sample No 8
Date 14-Apr-2018

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing Test Result	Gradation Limits as per MORT&H	Remarks
1	53	0	0	0	100	100	0
2	45	108	2.7	2.7	97.3	95-100	
3	22.4	1040	26	28.7	71.3	60-80	
4	11.2	810	20.25	48.95	51.05	40-60	
5	4.75	718	17.95	66.9	33.1	25-40	
6	2.36	412	10.3	77.2	22.8	15-30	
7	0.06	309	7.73	84.93	15.07	(8-22)	
8	0.075	407.5	10.19	95.12	4.88	0-5	

Note:

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Private Limited

Authorised Signature

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